Accelerating Innovation through Information Technology and Enterprise Modernization

Leigh Williamson, Chief Technology Officer Team
IBM Software, Rational

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What do teams need to improve their efficiency?

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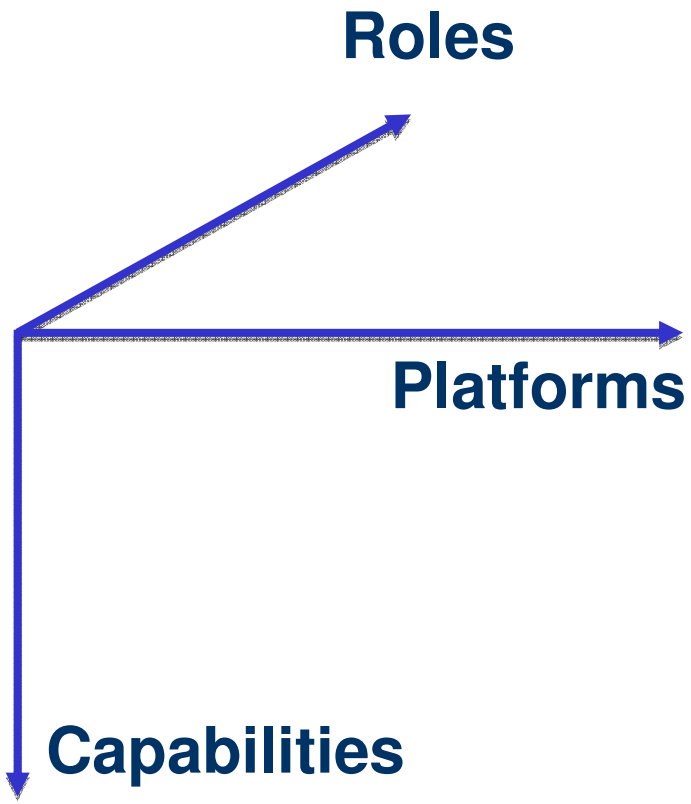
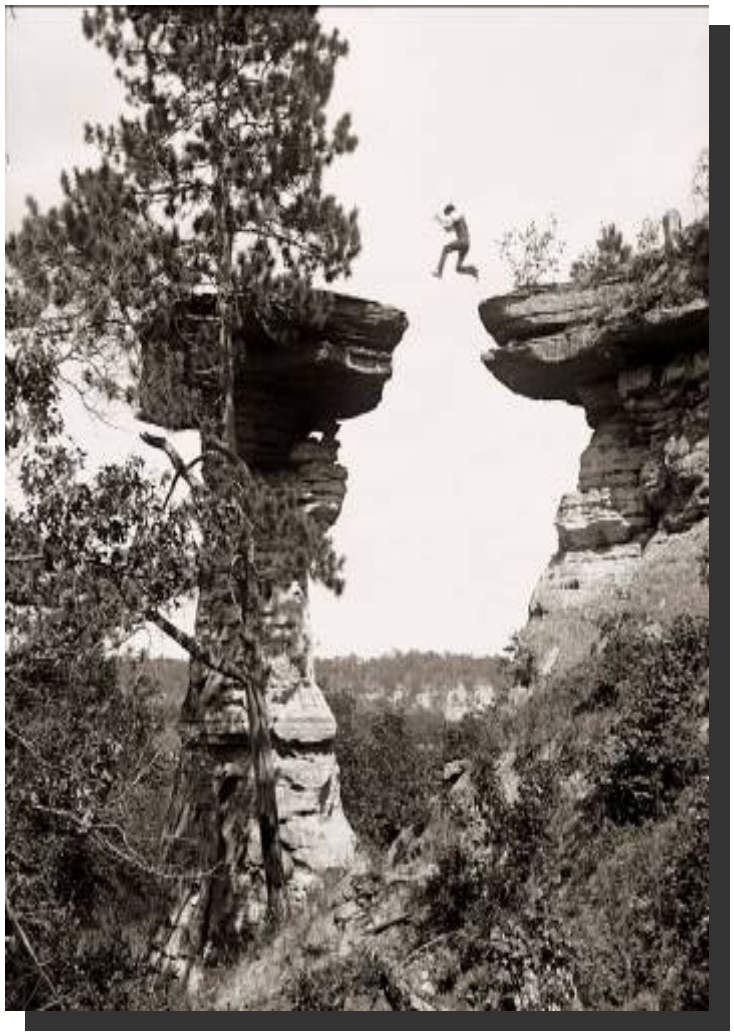
Integration Dimensions





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The Five Imperatives of Application Lifecycle Management

Improve productivity 4-6% annually

1. **Accelerate time to delivery with real-time planning**
2. **Improve quality with lifecycle traceability**
3. **Maximize time to value with in-context collaboration**
4. **Refine predictability with development intelligence**
5. **Reduce costs with continuous improvement**

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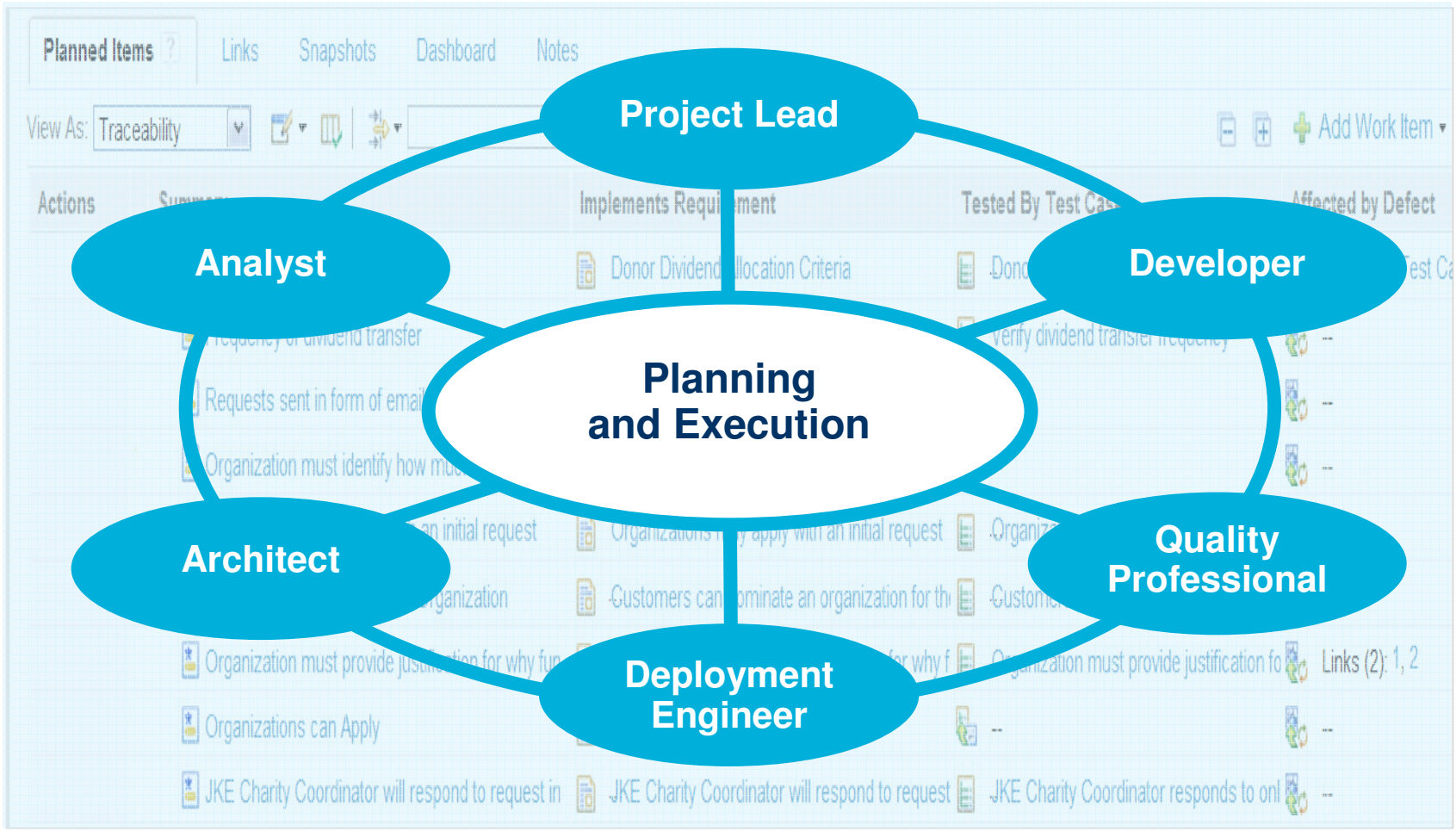
Imperative 1: Real-Time Planning



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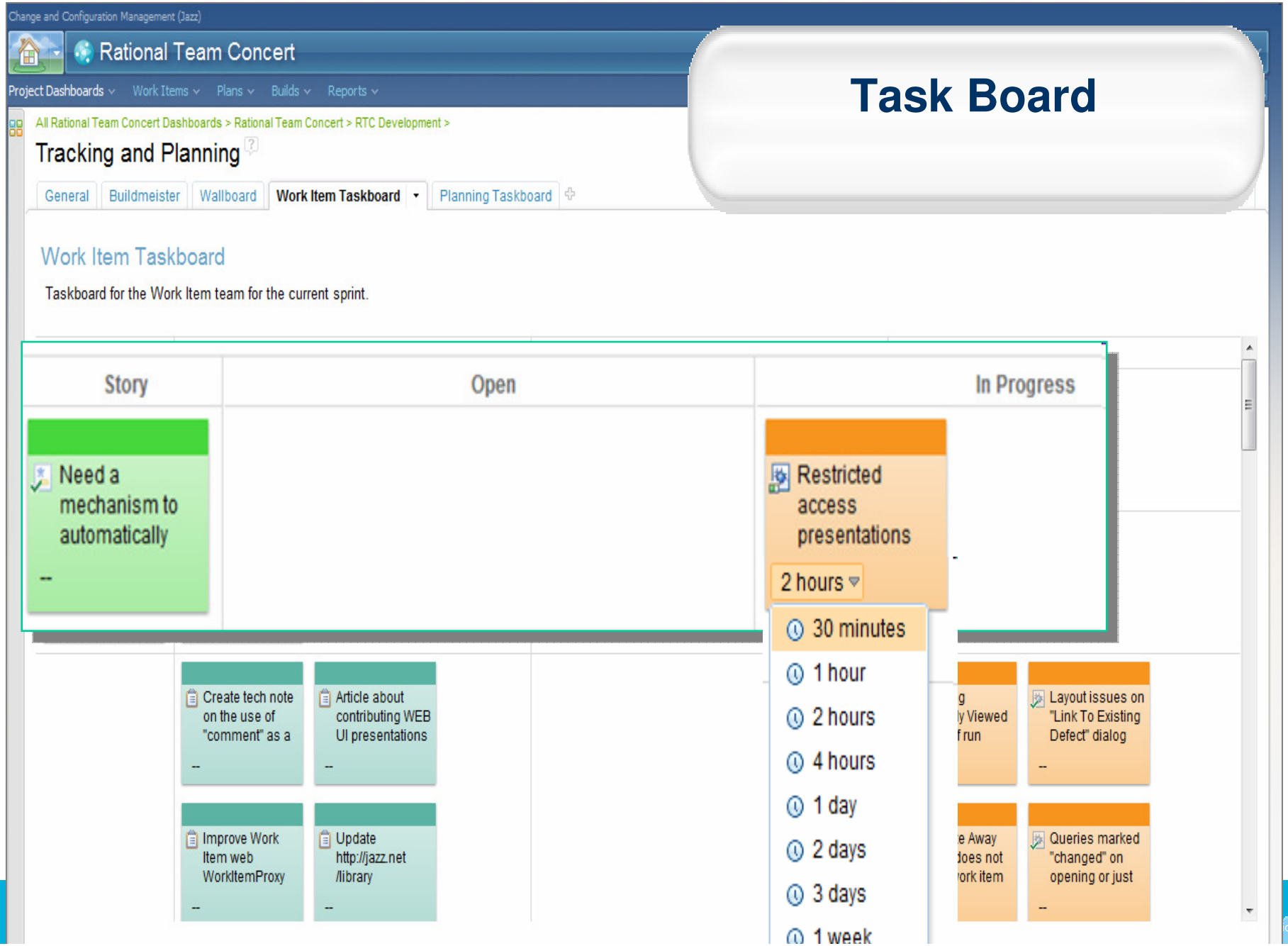
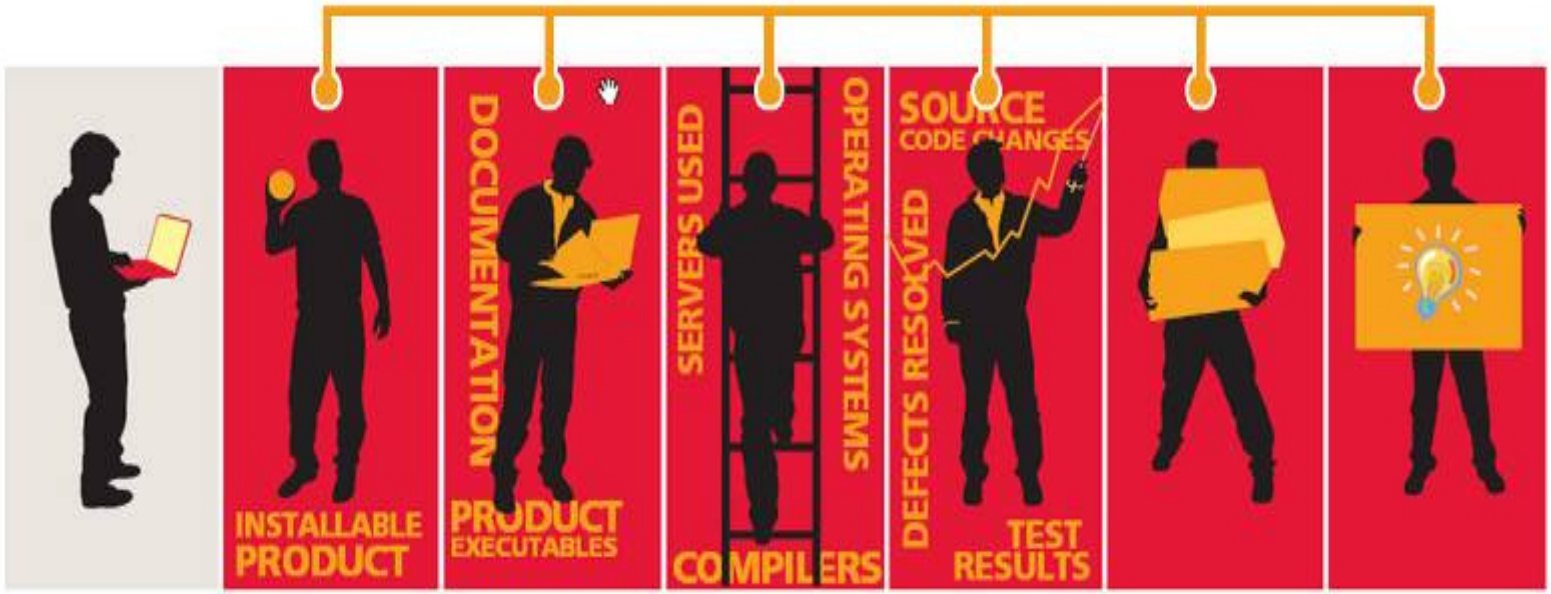
Task Board


Change and Configuration Management (Jazz)
Rational Team Concert
Project Dashboards
Work Items
Plans
Builds
Reports
All Rational Team Concert Dashboards > Rational Team Concert > RTC Development >
Tracking and Planning
General
Buildmeister
Wallboard
Work Item Taskboard
Planning Taskboard
Work Item Taskboard
Taskboard for the Work Item team for the current sprint.
Story
Open
In Progress
Need a mechanism to automatically
--
Restricted access presentations
2 hours
30 minutes
1 hour
2 hours
4 hours
1 day
2 days
3 days
1 week
Create tech note on the use of "comment" as a
--
Article about contributing WEB UI presentations
--
Improve Work Item web WorkItemProxy
--
Update http://jazz.net /library
--
Layout issues on "Link To Existing Defect" dialog
--
Queries marked "changed" on opening or just
--

Imperative 2: Lifecycle Traceability

Instant access to details from any point in the development process



Customer | **Final Product** | **Build Artifacts** | **Environment** | **Supporting Systems** | **Requirements Management** | **Initial Idea**

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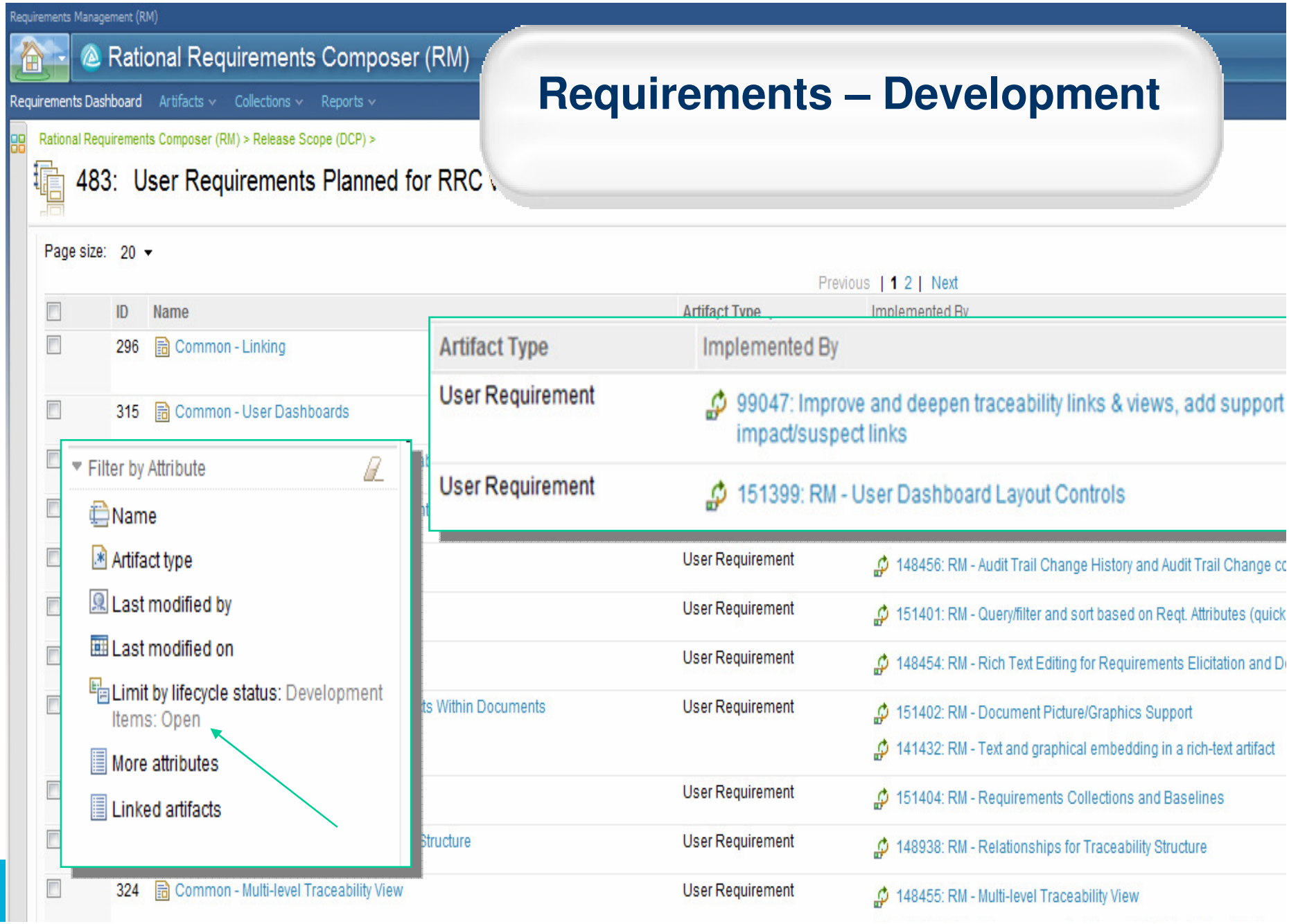
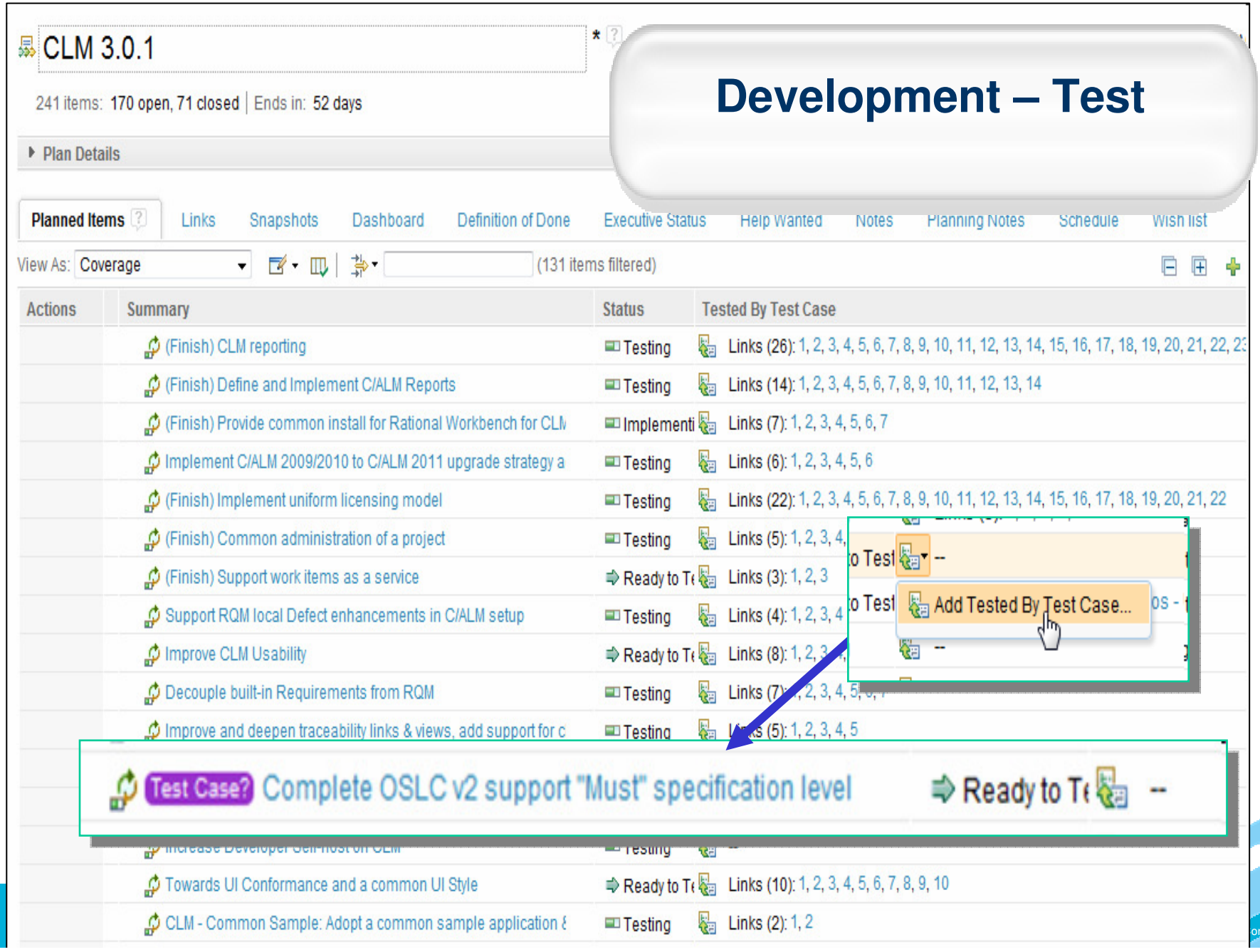
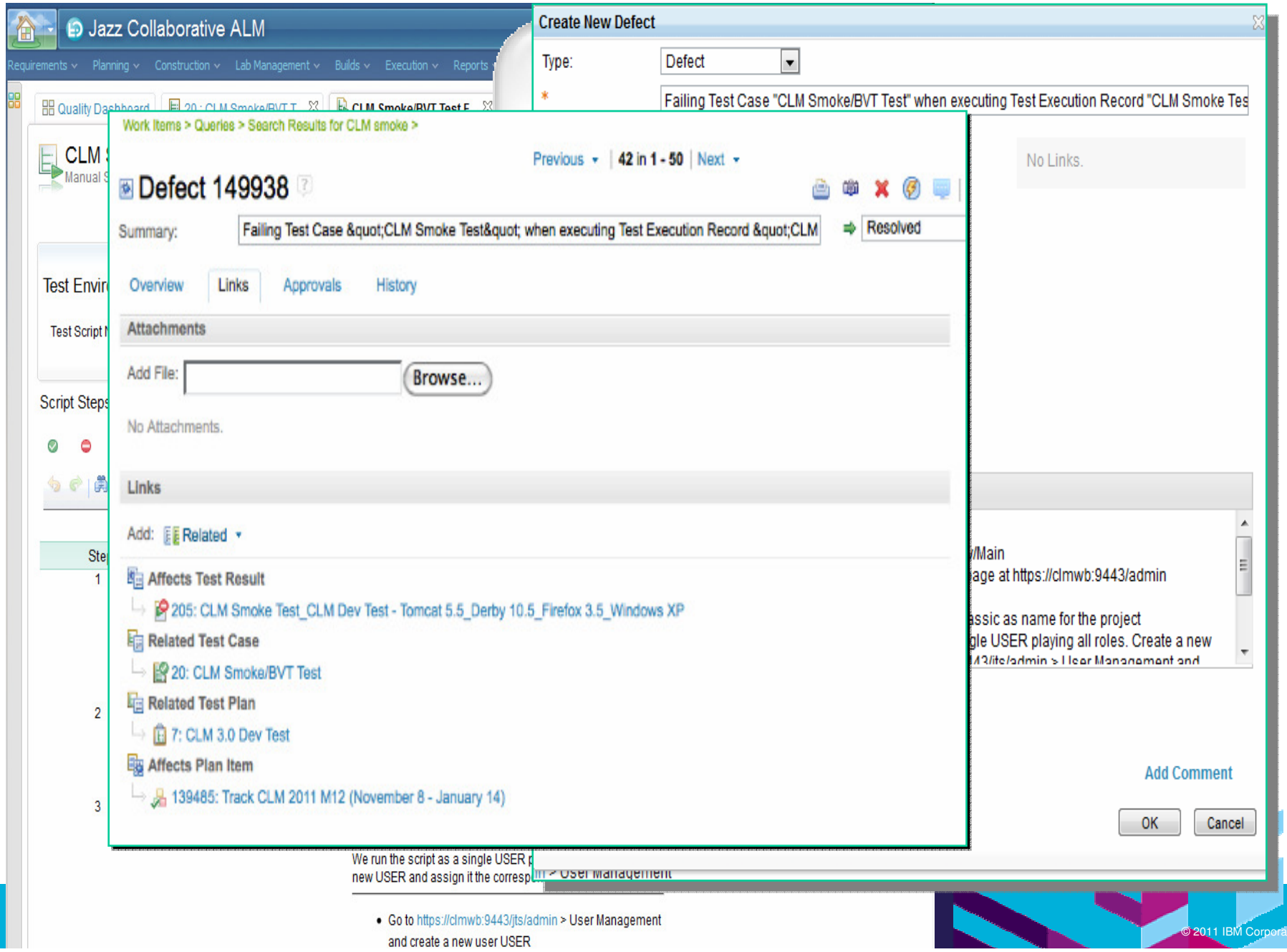
Requirements – Development



Development – Test





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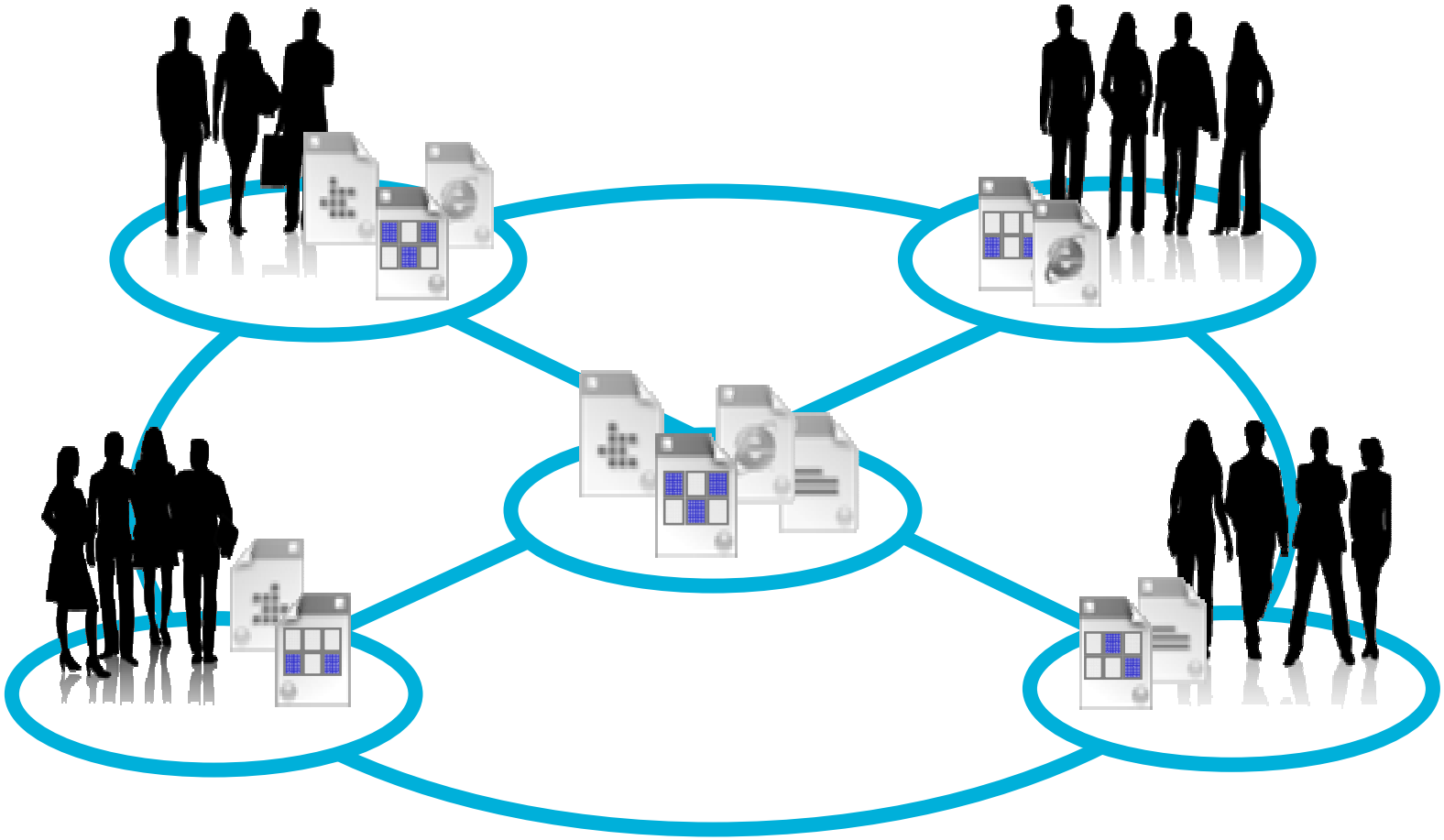
Imperative 3: In-Context Collaboration



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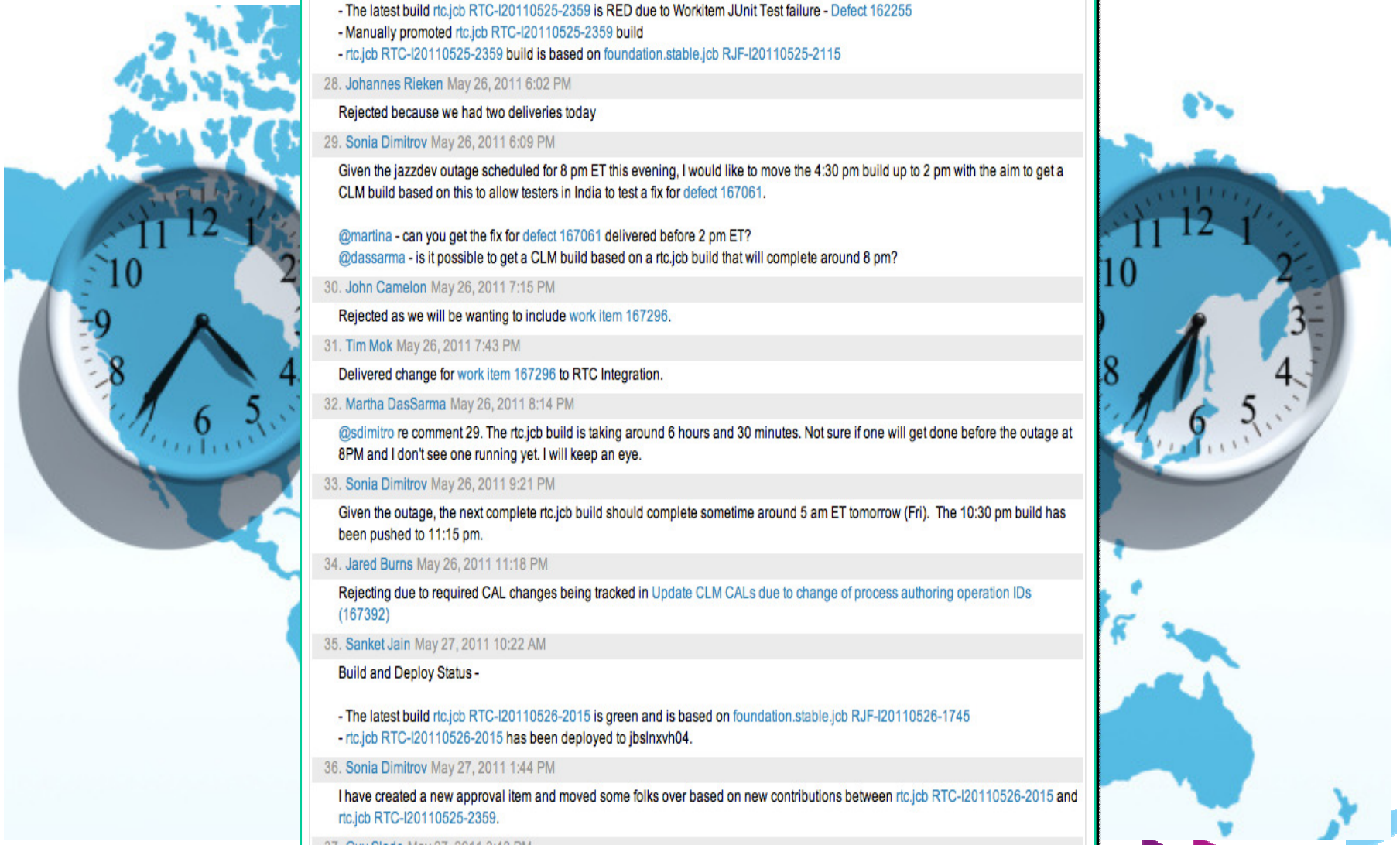

27. Sanket Jain May 26, 2011 3:57 PM

Build and Deploy Status -

- The latest build rtc.jcb RTC-I20110525-2359 is RED due to Workitem JUnit Test failure - Defect 162255
- Manually promoted rtc.jcb RTC-I20110525-2359 build
- rtc.jcb RTC-I20110525-2359 build is based on foundation.stable.jcb RJF-I20110525-2115

28. Johannes Rieken May 26, 2011 6:02 PM

Rejected because we had two deliveries today

29. Sonia Dimitrov May 26, 2011 6:09 PM

Given the jazzdev outage scheduled for 8 pm ET this evening, I would like to move the 4:30 pm build up to 2 pm with the aim to get a CLM build based on this to allow testers in India to test a fix for defect 167061.

@martina - can you get the fix for defect 167061 delivered before 2 pm ET?
@dassarma - is it possible to get a CLM build based on a rtc.jcb build that will complete around 8 pm?

30. John Camelon May 26, 2011 7:15 PM

Rejected as we will be wanting to include work item 167296.

31. Tim Mok May 26, 2011 7:43 PM

Delivered change for work item 167296 to RTC Integration.

32. Martha DasSarma May 26, 2011 8:14 PM

@sdimitro re comment 29. The rtc.jcb build is taking around 6 hours and 30 minutes. Not sure if one will get done before the outage at 8PM and I don't see one running yet. I will keep an eye.

33. Sonia Dimitrov May 26, 2011 9:21 PM

Given the outage, the next complete rtc.jcb build should complete sometime around 5 am ET tomorrow (Fri). The 10:30 pm build has been pushed to 11:15 pm.

34. Jared Burns May 26, 2011 11:18 PM

Rejecting due to required CAL changes being tracked in Update CLM CALs due to change of process authoring operation IDs (167392)

35. Sanket Jain May 27, 2011 10:22 AM

Build and Deploy Status -

- The latest build rtc.jcb RTC-I20110526-2015 is green and is based on foundation.stable.jcb RJF-I20110526-1745
- rtc.jcb RTC-I20110526-2015 has been deployed to jbslnxvh04.

36. Sonia Dimitrov May 27, 2011 1:44 PM

I have created a new approval item and moved some folks over based on new contributions between rtc.jcb RTC-I20110526-2015 and rtc.jcb RTC-I20110525-2359.

37. Guy Slade May 27, 2011 3:48 PM

SVT_RC3_W2: Binary rebuild does not rebuild COBOL file if trust output is true (165938) has just been reopened on us. Investigating now to see what the deal is and whether we can fix it today

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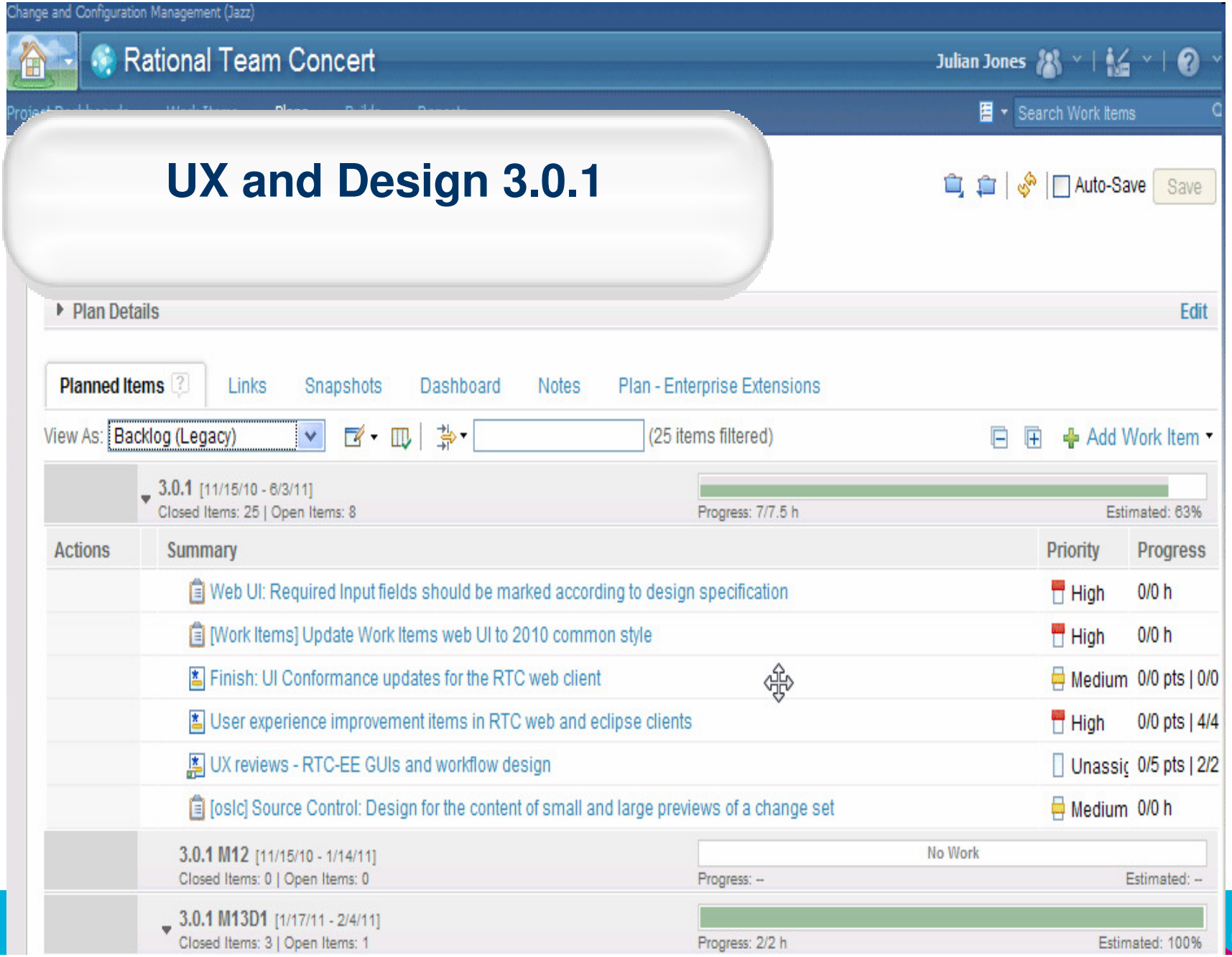
UX and Design 3.0.1



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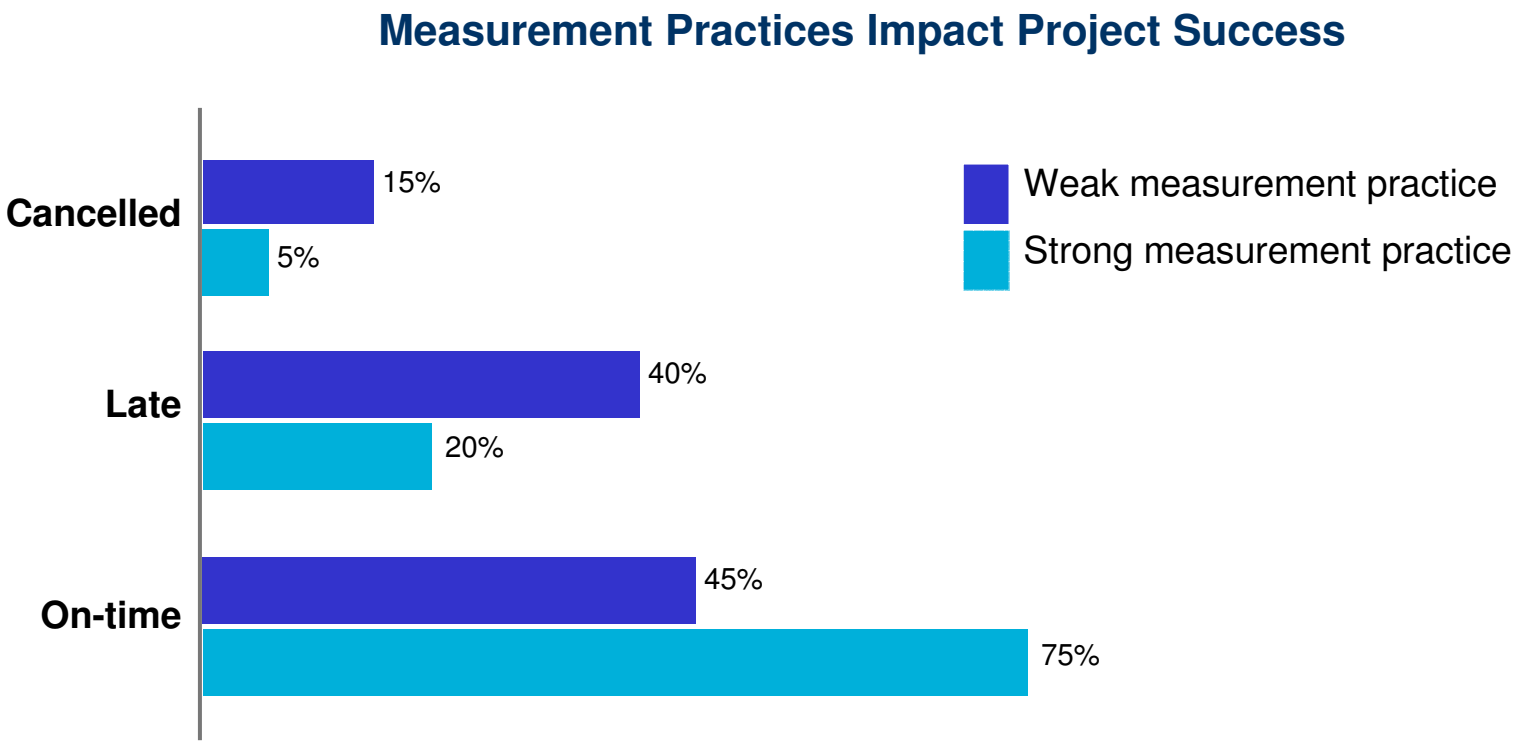
Imperative 4: Development Intelligence



Source: Capers Jones, Measurement, Metrics and Industry Leadership, 2009 and Software Engineering Best Practices, McGraw Hill, 2010.

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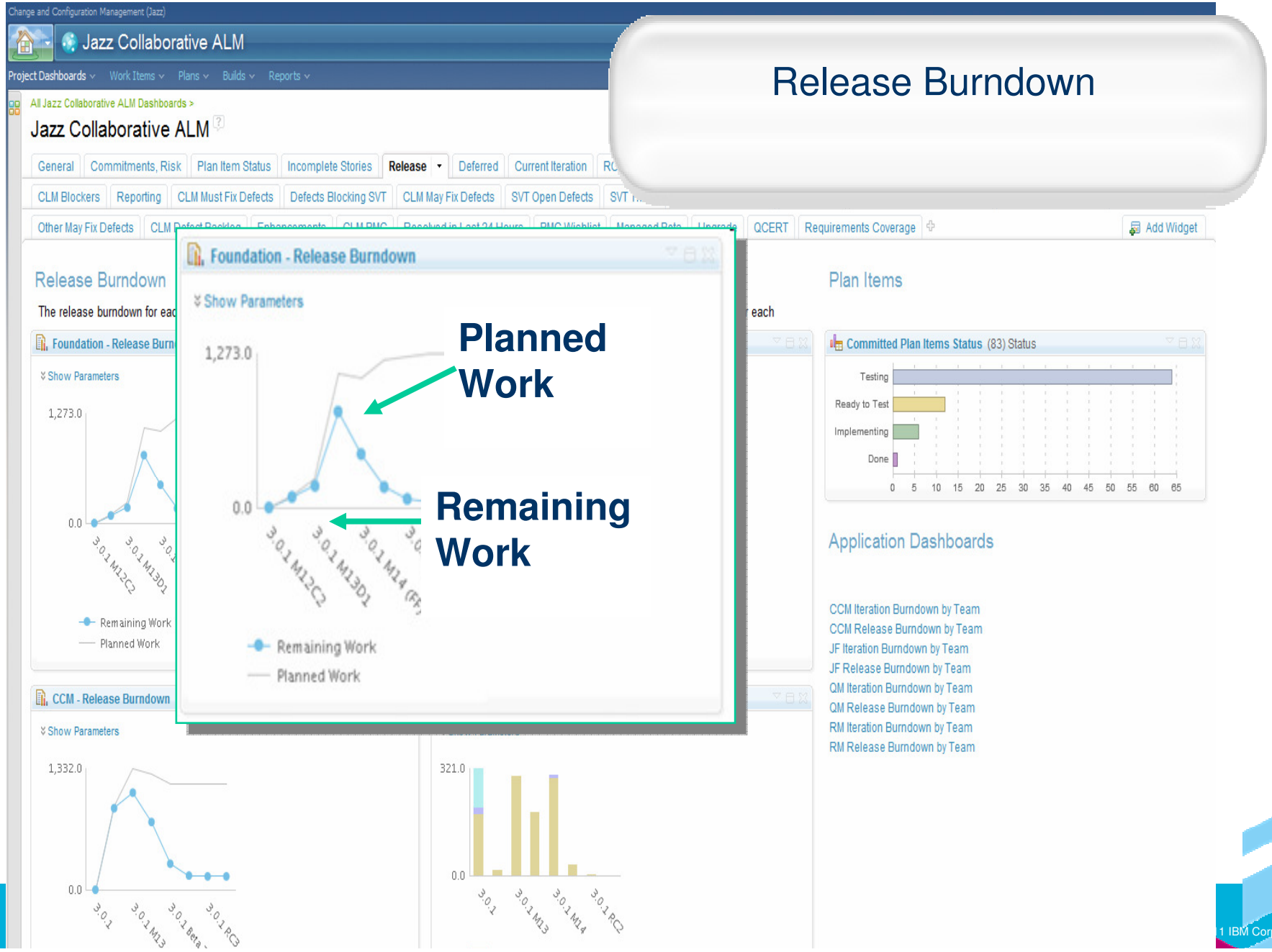
Release Burndown



Planned Work

Remaining Work

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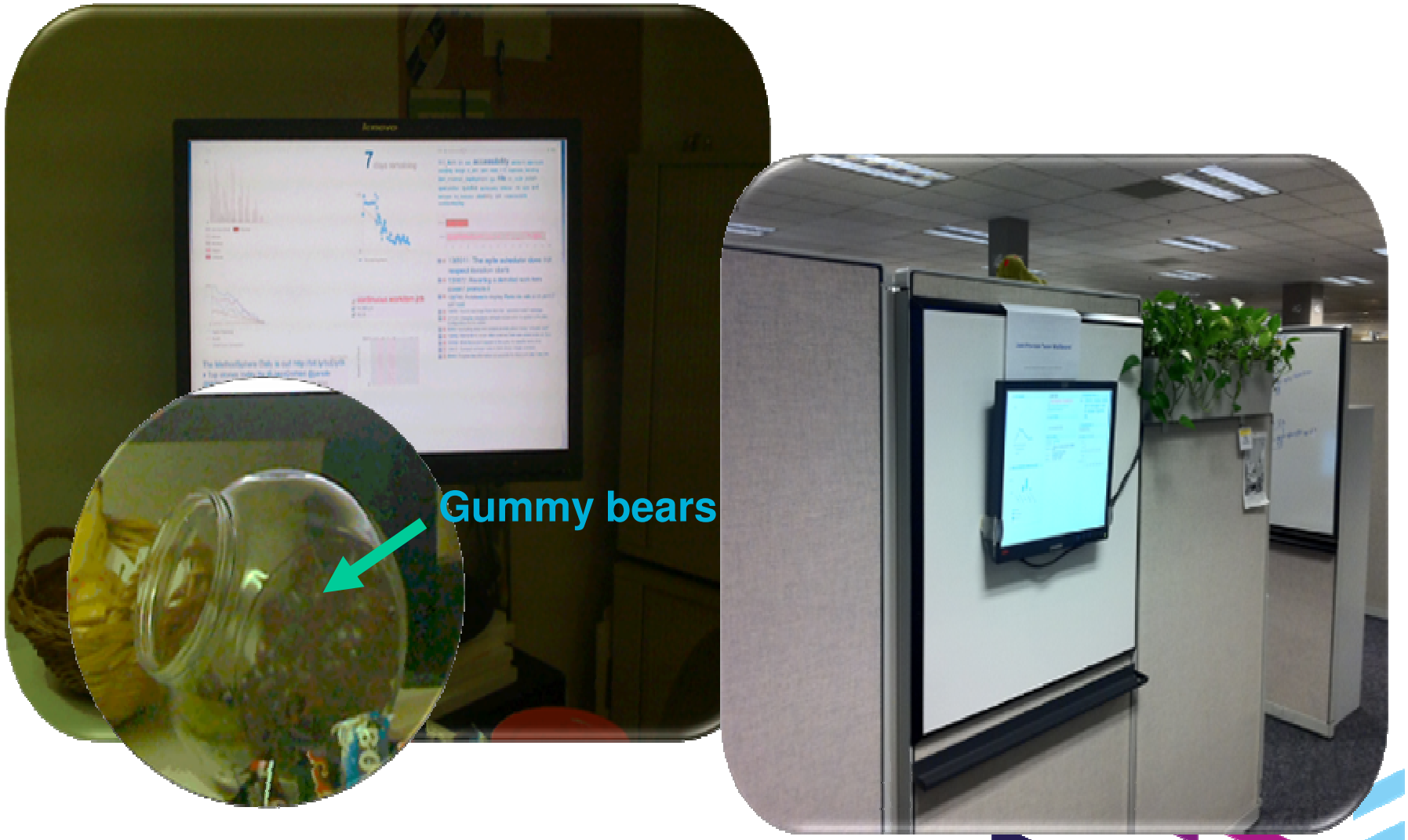
Information Radiators: *Wallboards*



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Imperative 5: Continuous Improvement

"Successful analytics requires taking it beyond software and reporting, and into the realm of management practices and operations improvement."

Information Management Online, February 23, 2011

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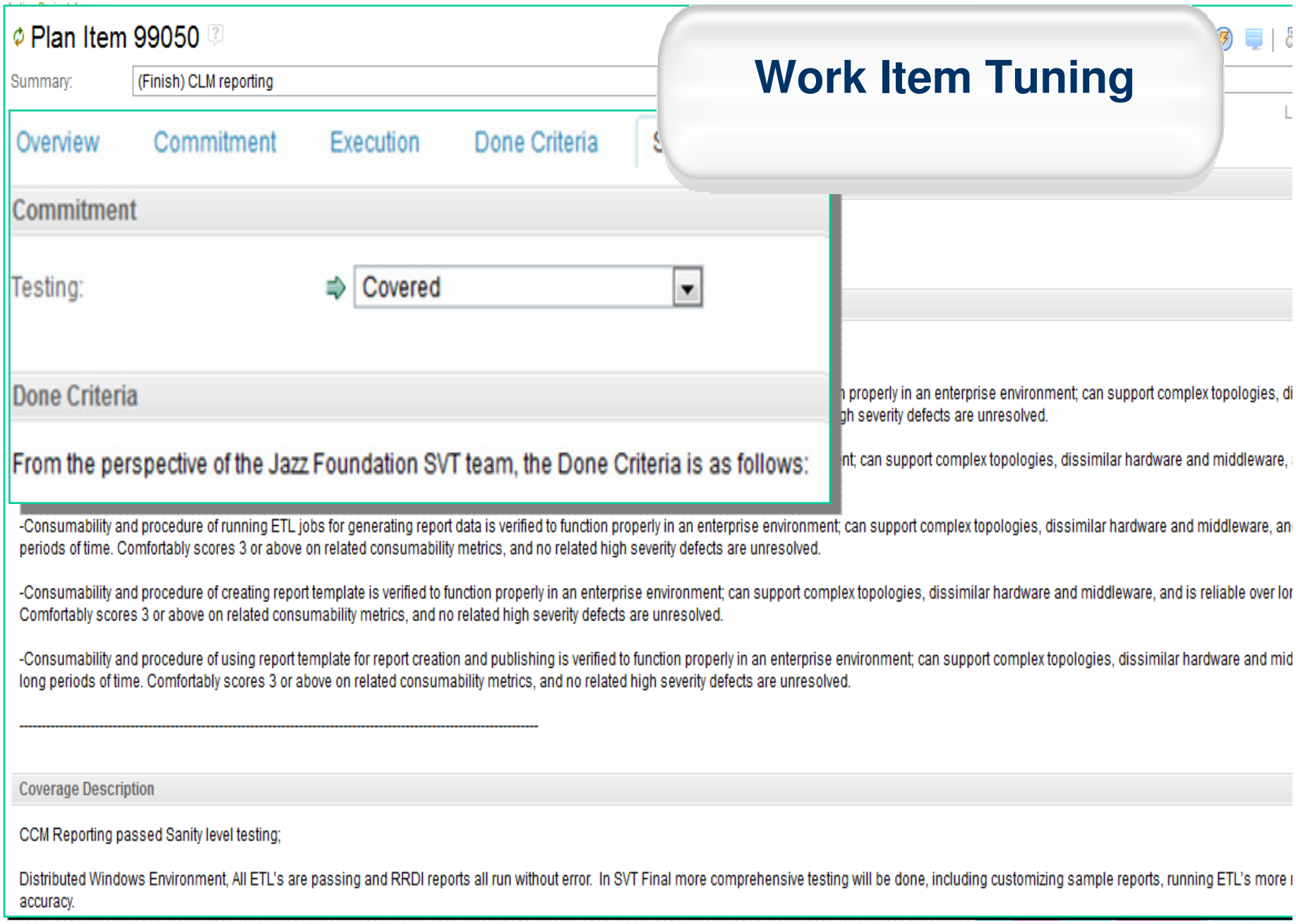
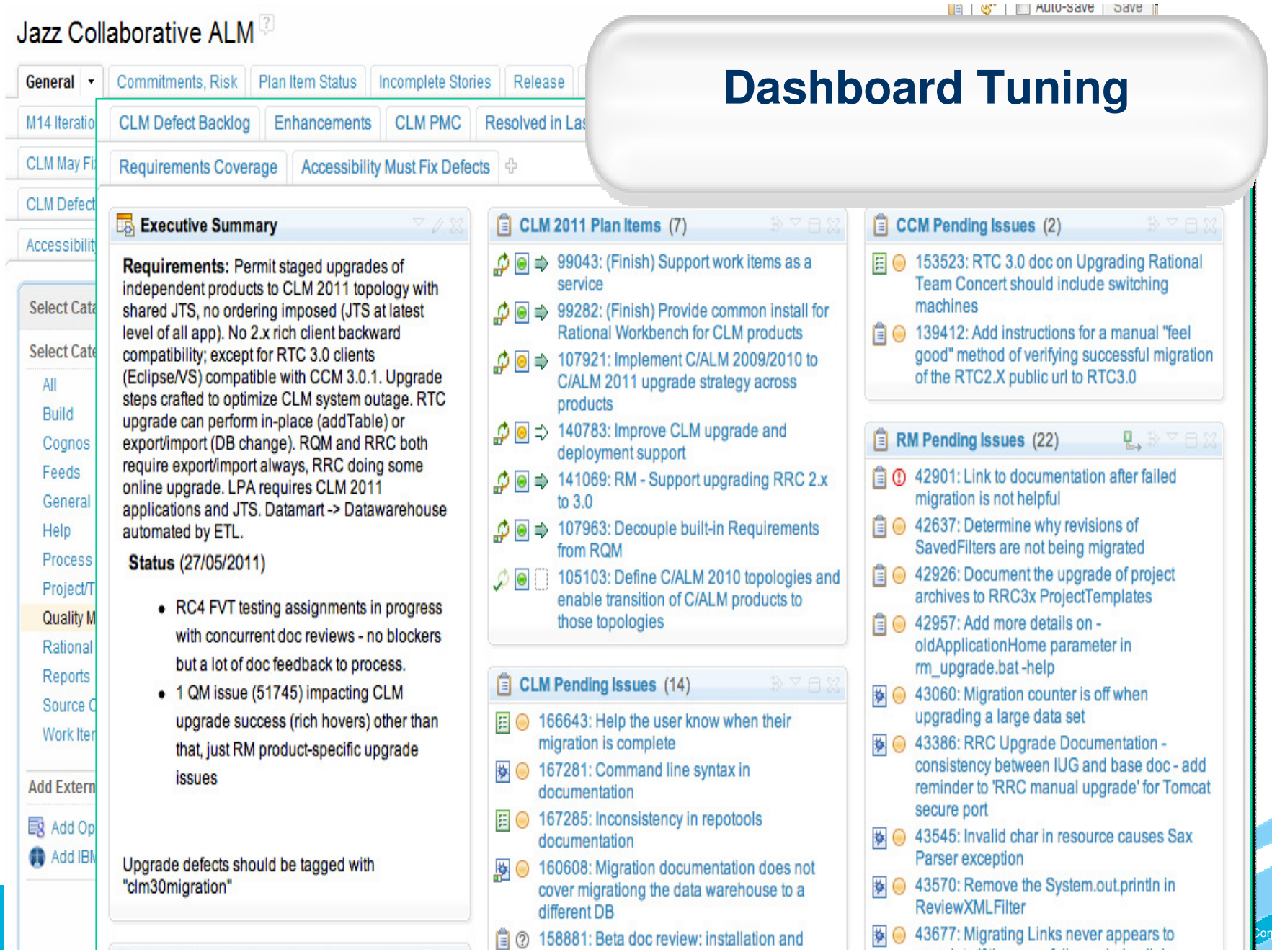
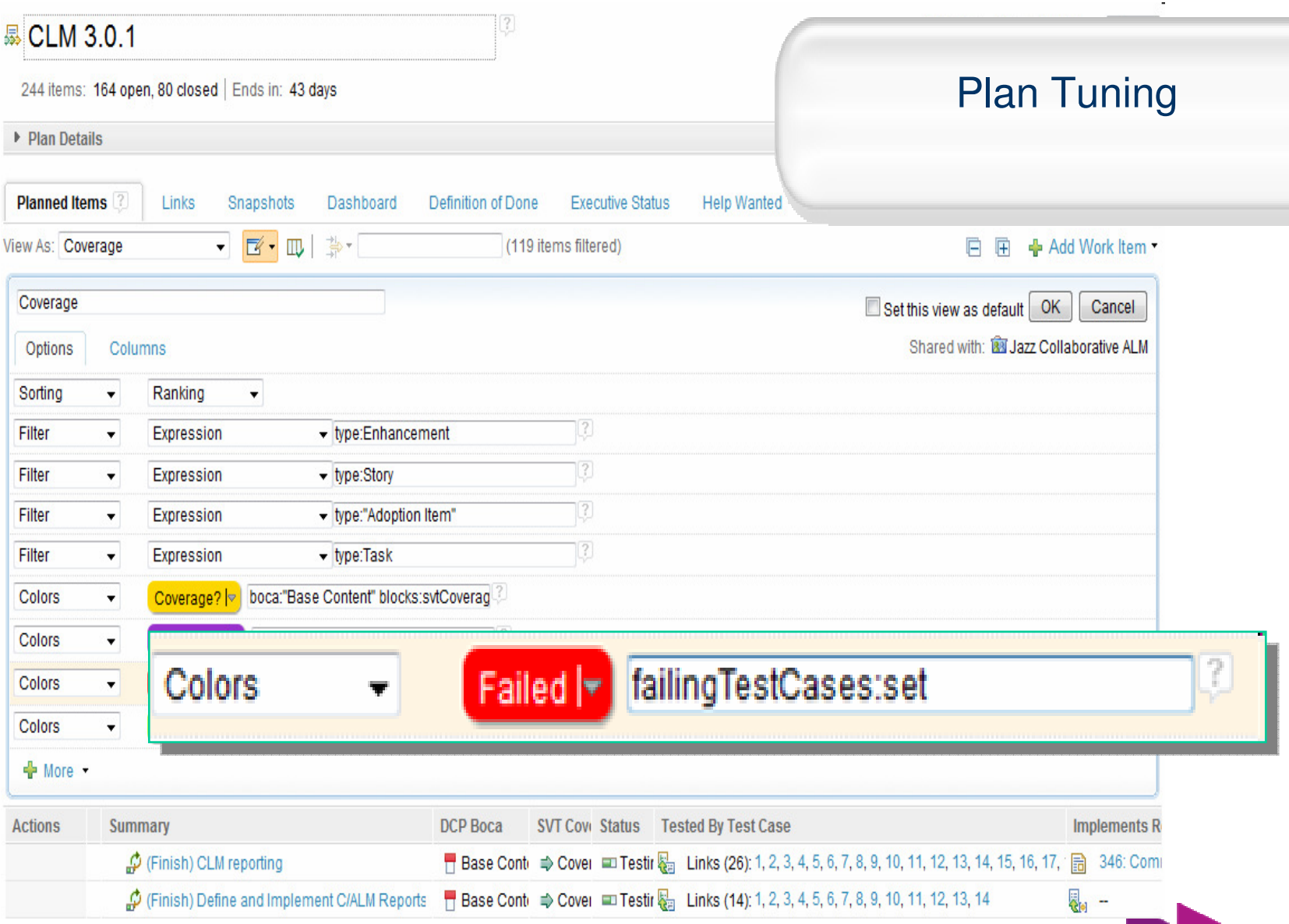
Work Item Tuning



Dashboard Tuning



Plan Tuning



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ALM Imperatives in Action

1. Real-time planning
2. Lifecycle traceability
3. In-context collaboration
4. Development intelligence
5. Continuous process improvement

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Extending Integration to Traditional Platforms

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COBOL Fun Facts

200x more COBOL transactions/day than **Google searches**

5 billion new COBOL LOC yearly

250 billion LOC of COBOL in existence

COBOL training **no longer offered** at most universities

Approximately all active code is **80% COBOL**

One million COBOL programs currently active

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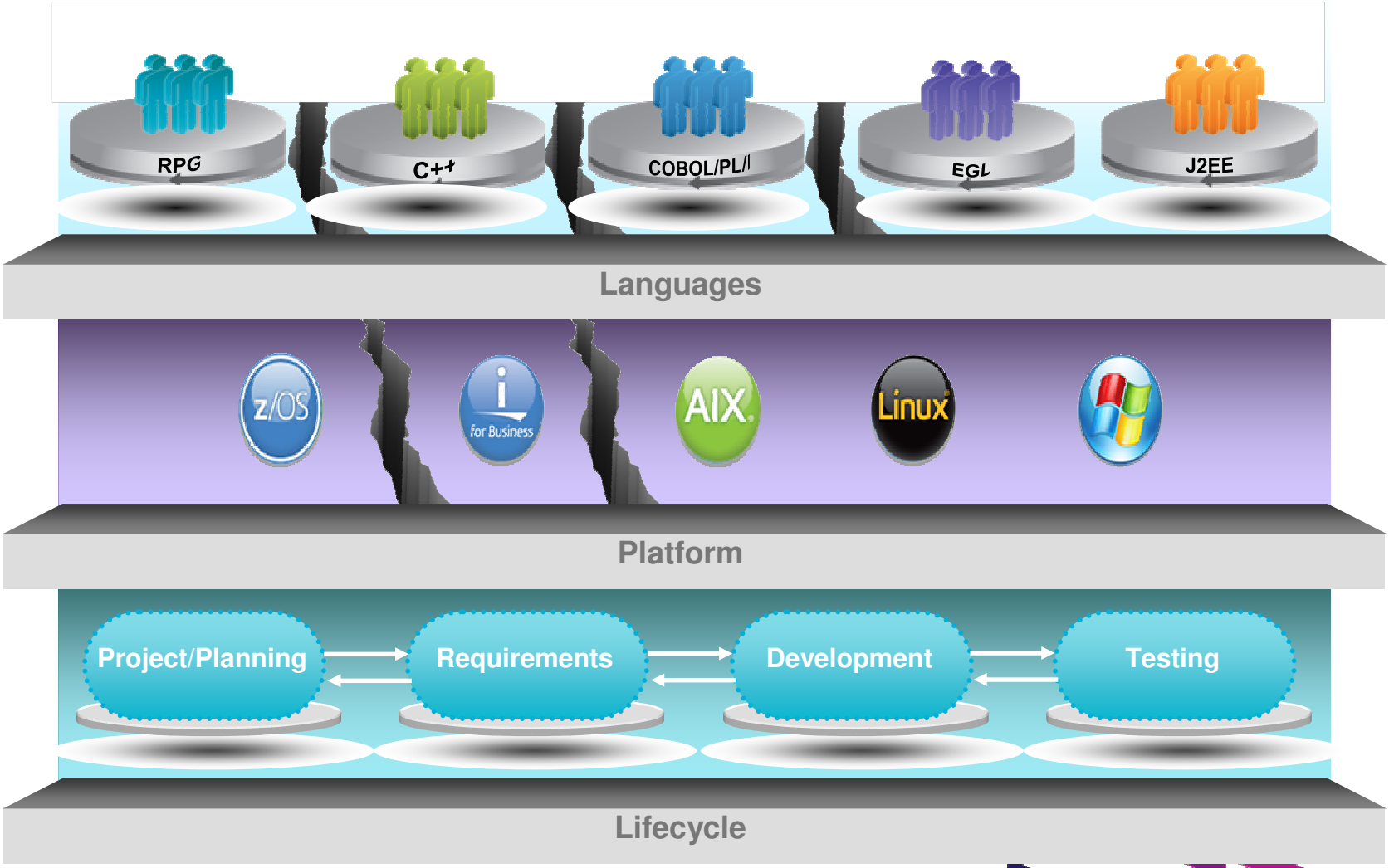
Remaining Enterprise Integration Barriers



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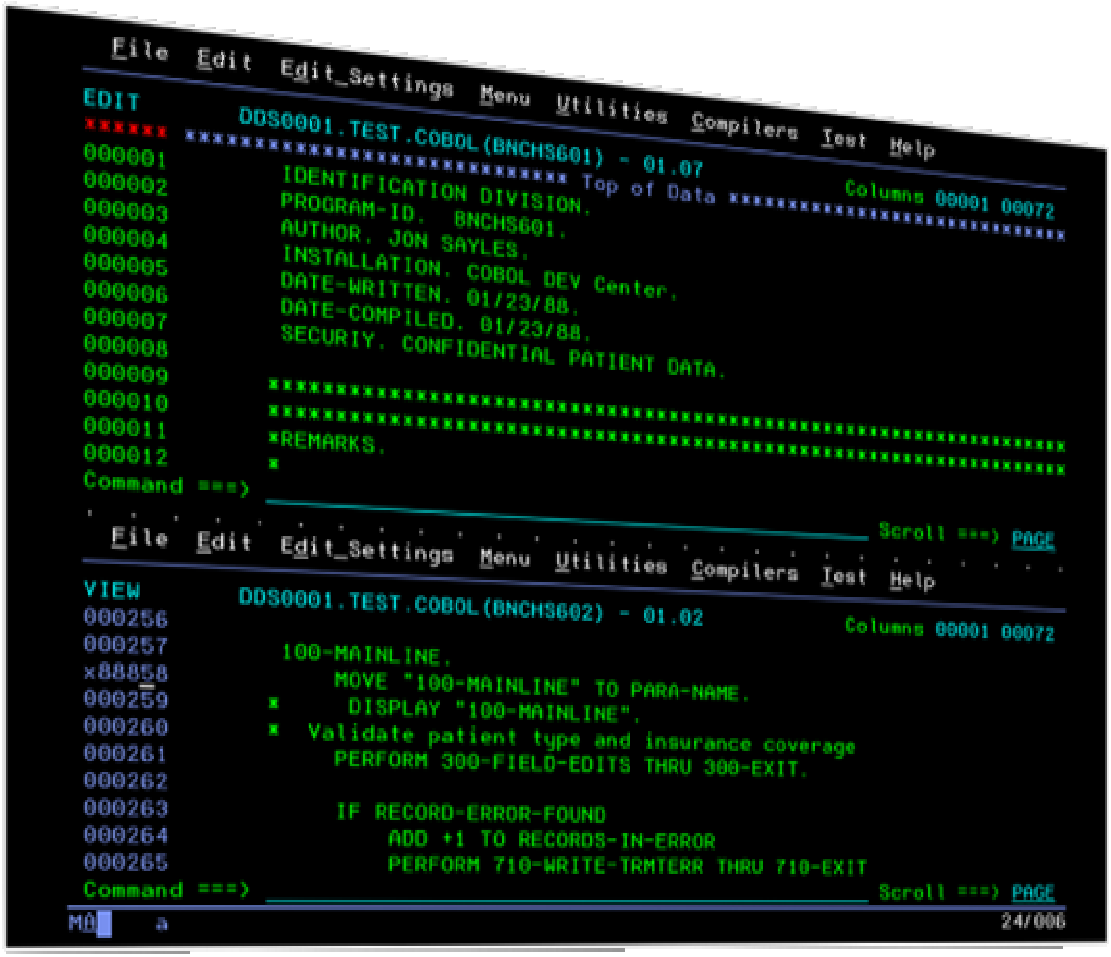
ISPF…Modern? Productive?



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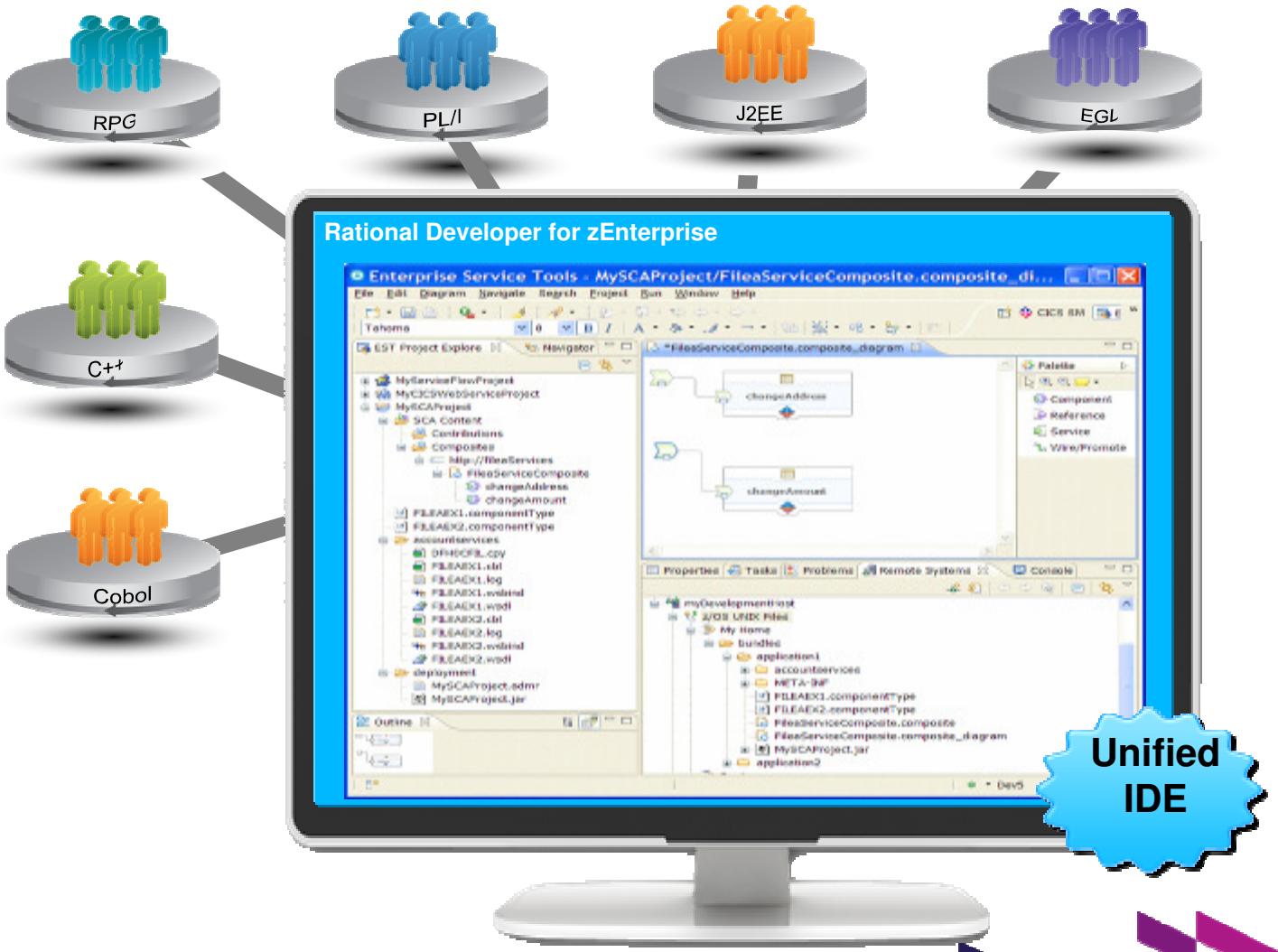
Modern and Productive!



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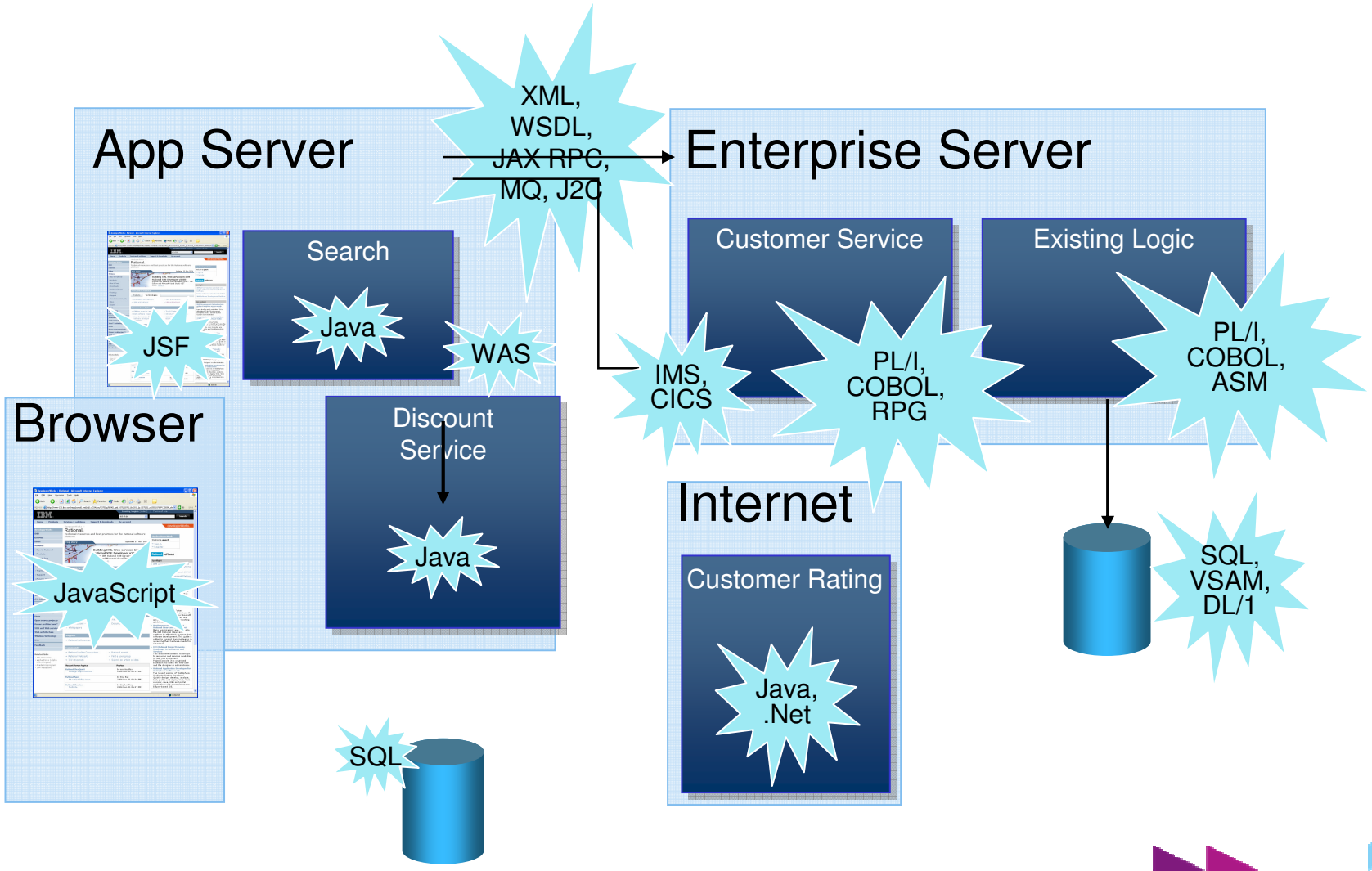
Middleware Complexities Exposed



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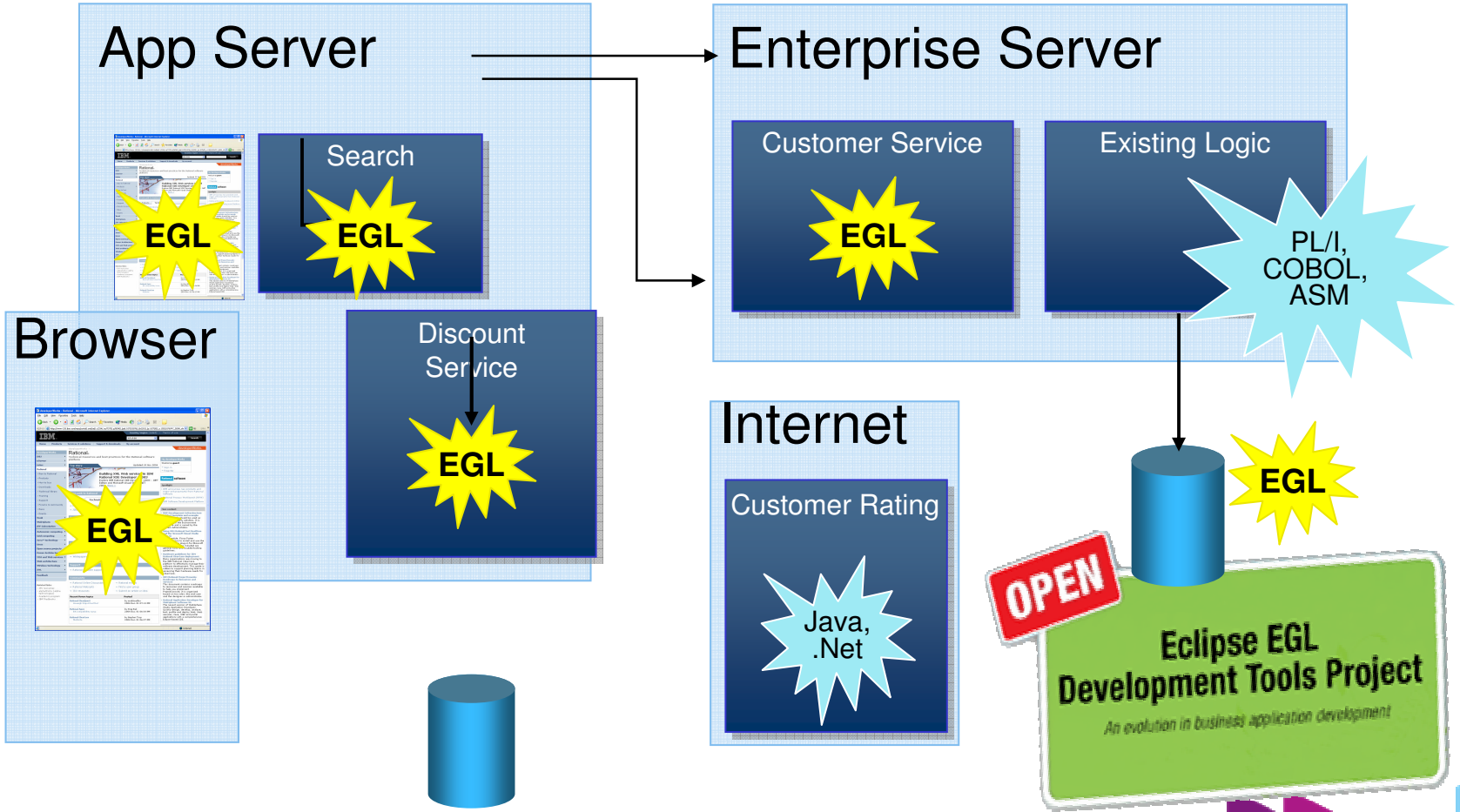
Middleware Complexities Hidden



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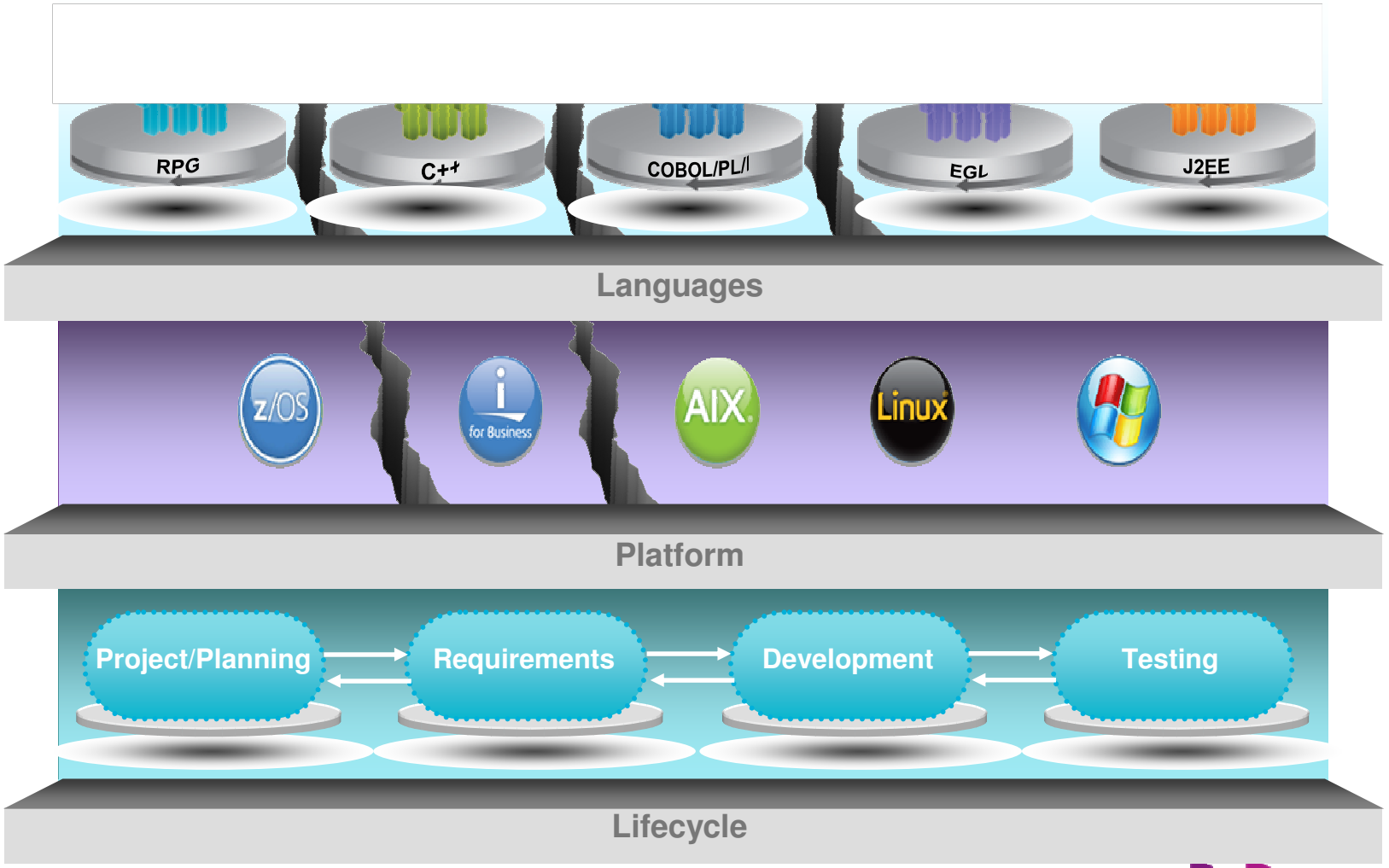
Disconnected Teams and Infrastructure



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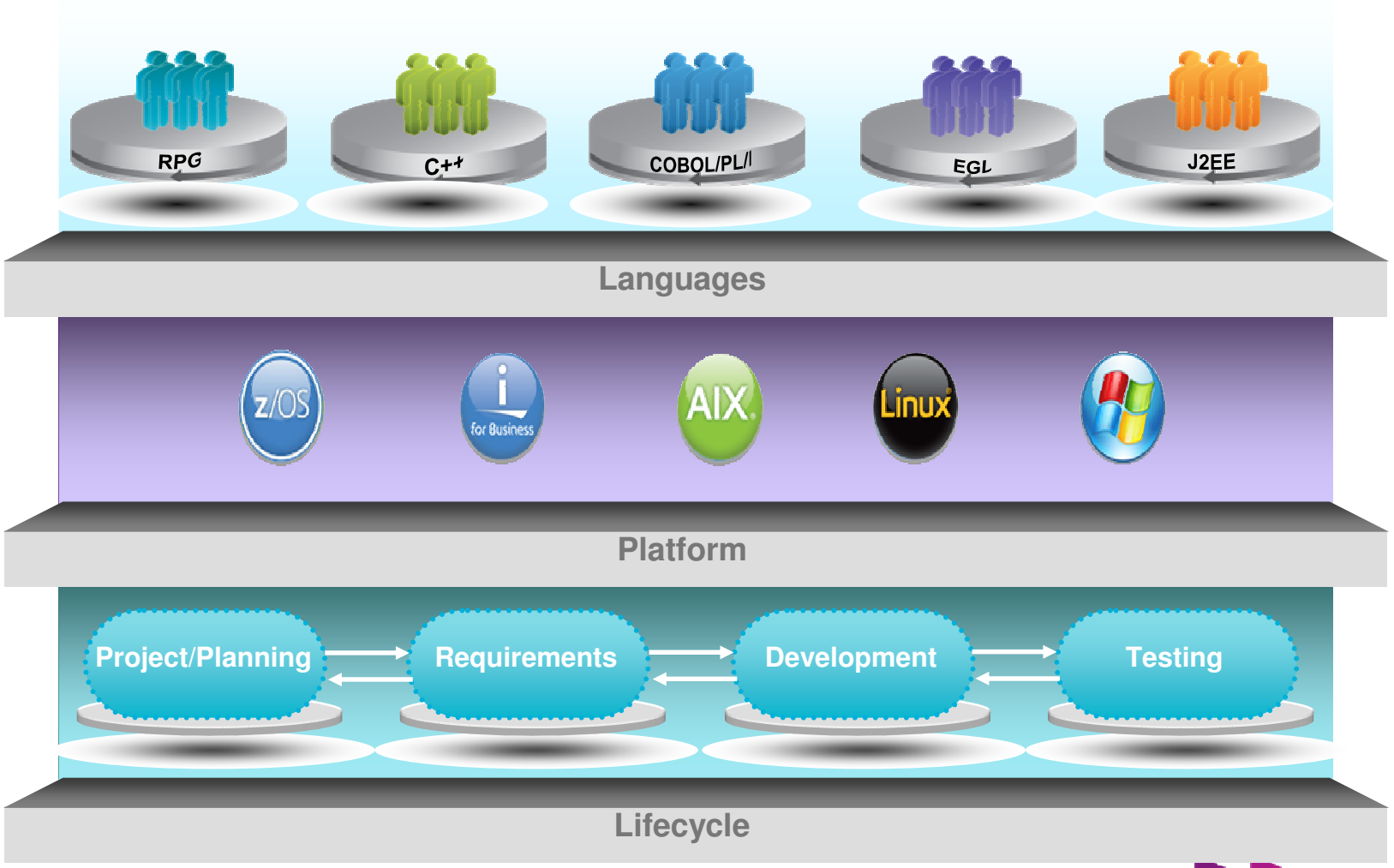
Integrated Teams and Infrastructure



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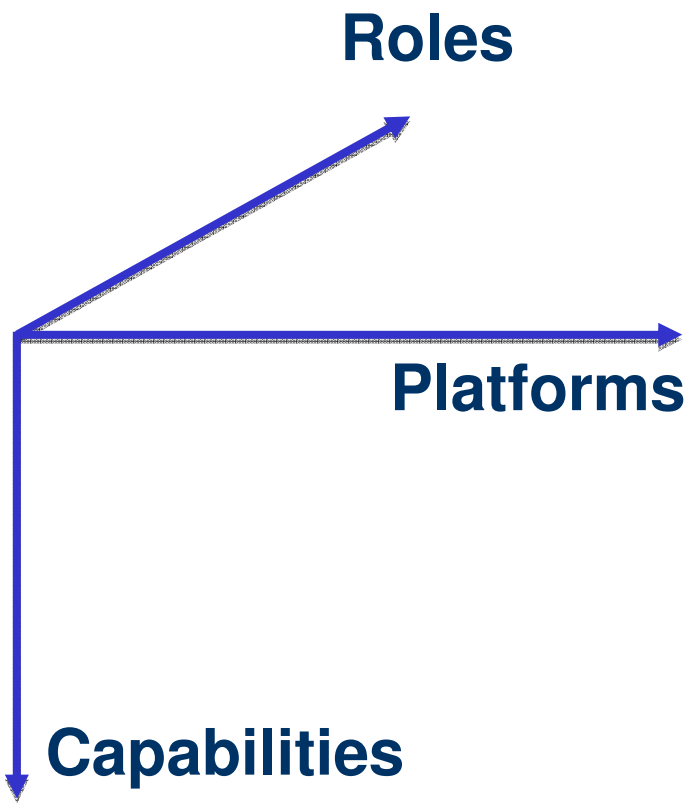
Integration Matters



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